# WEST Search History

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DATE: Friday, January 09, 2004

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| ☐ | L13 | l10 and l9 | 99 |
| ☐ | L12 | L11 and l10 and l9 | 2 |
| ☐ | L11 | maldi\|tof\|esi\|cid | 1996 |
| ☐ | L10 | fungi\|fungus\|fungal\|yeast\|mold\|pollen | 588684 |
| ☐ | L9 | (mass spectrometry)\|(mass spectroscopy) | 3836 |
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| ☐ | L7 | 20000531 | 5 |
| ☐ | L6 | L3 same (esi\|cid) | 10 |
| ☐ | L5 | 20000531 | 5 |
| ☐ | L4 | L3 same (maldi\|tof) | 23 |
| ☐ | L3 | L2 same l1 | 395 |
| ☐ | L2 | (mass spectrometry)\|(mass spectroscopy) | 34251 |
| ☐ | L1 | fungi\|fungus\|fungal\|yeast\|mold\|pollen | 334087 |

END OF SEARCH HISTORY

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FULL ESTIMATED COST                                         0.21       0.21

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                    N SOCIETY FOR MASS SPECTROMETRY/RE
E87           1     JULIAN R, 1996, PROCEEDINGS OF THE 44TH ASMS CONFERENCE ON M
                    ASS SPECTROMETRY AND ALLIED TOPICS/RE
E88           1     JULIAN R, 1997, P979, DISEASES OF POULTRY 10TH ED/RE
E89           1     JULIAN R, 1997, P979, DISEASES OF POULTRY TENTH/RE
E90           1     JULIAN R, 1998, POULTRY INTERNATIONAL/RE
E91          12     JULIAN R, 1998, V70, P3249, ANAL CHEM/RE
E92           4     JULIAN R, 1998, V77, P1773, POULT SCI/RE
E93           1     JULIAN R, 1998, V77, P1773, POULTRY SCI/RE
E94           1     JULIAN R, 1999, P199, MODERN APPLIED MATHEMATICS TECHNIQUES
                    IN CIRCUITS SYSTEMS AND CONTROL/RE
E95           1     JULIAN R, 2000, P389, CHEM COMMUN/RE
E96           2     JULIAN R, 2000, V29, P519, AVIAN PATHOL/RE

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L1           12 "JULIAN R, 1998, V70, P3249, ANAL CHEM"/RE
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L1   ANSWER 1 OF 12  CAPLUS  COPYRIGHT 2004 ACS on STN
AN   2003:459324  CAPLUS
TI   Fungal metabolite screening: database of 474 mycotoxins and fungal
     metabolites for dereplication by standardised liquid chromatography-UV-
     mass spectrometry methodology
AU   Nielsen, Kristian Fog; Smedsgaard, Jorn
CS   BioCentrum-DTU, Mycology Group, Technical University of Denmark, Lyngby,
     DK-2800, Den.
SO   Journal of Chromatography, A (2003), 1002(1-2), 111-136
     CODEN: JCRAEY; ISSN: 0021-9673
PB   Elsevier Science B.V.
DT   Journal
LA   English
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L1   ANSWER 2 OF 12  CAPLUS  COPYRIGHT 2004 ACS on STN
AN   2003:279227  CAPLUS
DN   138:270330
TI   Natural products: Discovery and screening
AU   Hilton, Matthew D.
CS   Bioprocess Fermentation Development, Eli Lilly and Company, Indianapolis,
     IN, USA
SO   Handbook of Industrial Cell Culture (2003), 107-136.  Editor(s): Vinci,
     Victor A.; Parekh, Sarad R. Publisher: Humana Press Inc., Totowa, N. J.
     CODEN: 69DSXR; ISBN: 1-58829-032-8
DT   Conference; General Review
LA   English
RE.CNT  82     THERE ARE 82 CITED REFERENCES AVAILABLE FOR THIS RECORD
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L1 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:289965 CAPLUS
DN 137:163136
TI Electrospray mass spectrometry applications in combinatorial chemistry
AU Lee, Mike S.
CS Milestone Development Services, Newtown, PA, USA
SO Practical Spectroscopy (2002), 32(Applied Electrospray Mass Spectrometry), 187-210
CODEN: PSPED9; ISSN: 0148-9054
PB Marcel Dekker, Inc.
DT Journal; General Review
LA English
RE.CNT 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:30631 CAPLUS
DN 136:315140
TI Automated molecular weight assignment of electrospray ionization mass spectra
AU Williams, Jon D.; Weiner, Brian E.; Ormand, James R.; Brunner, Jimmy; Thornquest, Alan D., Jr.; Burinsky, David J.
CS Preclinical Development Division, GlaxoSmithKline, Research Triangle Park, NC, 27709-3398, USA
SO Rapid Communications in Mass Spectrometry (2001), 15(24), 2446-2455
CODEN: RCMSEF; ISSN: 0951-4198
PB John Wiley & Sons Ltd.
DT Journal
LA English
RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:880037 CAPLUS
DN 136:98264
TI Membrane-associated quinoprotein formaldehyde dehydrogenase from Methylococcus capsulatus Bath
AU Zahn, James A.; Bergmann, David J.; Boyd, Jeffery M.; Kunz, Ryan C.; DiSpirito, Alan A.
CS Department of Microbiology, Iowa State University, Ames, IA, 50011, USA
SO Journal of Bacteriology (2001), 183(23), 6832-6840
CODEN: JOBAAY; ISSN: 0021-9193
PB American Society for Microbiology
DT Journal
LA English
RE.CNT 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:835758 CAPLUS
DN 136:155824
TI Organic pollutants in aqueous-solid phase environments: Types, analyses and characterizations
AU Aboul-Kassim, Tarek A. T.; Simoneit, Bernd R. T.
CS Department of Civil, Construction and Environmental Engineering, College of Engineering, Oregon State University, Corvallis, OR, 97331, USA
SO Handbook of Environmental Chemistry (2001), Volume 5, Issue Pt. E, 1-105. Editor(s): Aboul-Kassim, Tarek A. T.; Simoneit, Bernd R. T. Publisher: Springer, Berlin, Germany.
CODEN: 45NZAP
DT Conference; General Review
LA English
RE.CNT 720 THERE ARE 720 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:381613 CAPLUS
DN 134:347933
TI Fast, efficient separations in drug discovery - LC-MS analysis using column switching and rapid gradients
AU Needham, Shane R.; Wehr, Tim
CS Alturas Analytics Inc., Moscow, ID, USA
SO LC-GC Europe (2001), 14(4), 244,246,248-249
CODEN: LCGCB4
PB Advanstar Communications, Inc.
DT Journal
LA English
RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:30161 CAPLUS
DN 134:175336
TI Use of direct-infusion electrospray mass spectrometry to guide empirical development of improved conditions for expression of secondary metabolites from actinomycetes
AU Zahn, James A.; Higgs, Richard E.; Hilton, Matthew D.
CS Natural Products Research, Eli Lilly and Company, Indianapolis, IN, 46285, USA
SO Applied and Environmental Microbiology (2001), 67(1), 377-386
CODEN: AEMIDF; ISSN: 0099-2240
PB American Society for Microbiology
DT Journal
LA English
RE.CNT 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:30160 CAPLUS
DN 134:175335
TI Rapid method to estimate the presence of secondary metabolites in microbial extracts
AU Higgs, Richard E.; Zahn, James A.; Gygi, Jeffrey D.; Hilton, Matthew D.
CS Natural Products Research, Lilly Corporate Center, Eli Lilly and Company, Indianapolis, IN, 46285, USA
SO Applied and Environmental Microbiology (2001), 67(1), 371-376
CODEN: AEMIDF; ISSN: 0099-2240
PB American Society for Microbiology
DT Journal
LA English
RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
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L1 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:805723 CAPLUS
DN 134:36643
TI Directions in discovery: Fast, efficient separations in drug discovery-LC-MS analysis using column switching and rapid gradients
AU Needham, S. R.
CS Alturas Analytics, Inc., Alturas Technology Park, Moscow, 83843, Russia
SO LC-GC (2000), 18(11), 1156, 1158, 1160-1161
CODEN: LCGCE7; ISSN: 0888-9090
PB Advanstar Communications, Inc.
DT Journal
LA English
RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
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L1 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:513722 CAPLUS

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DN    131:266391
TI    The role of mass spectrometry in the drug discovery process
AU    Pramanik, Birendra N.; Bartner, Peter L.; Chen, Guodong
CS    Schering-Plough Research Institute, Kenilworth, NJ, 07033, USA
SO    Current Opinion in Drug Discovery & Development (1999), 2(4), 401-417
      CODEN: CODDFF; ISSN: 1367-6733
PB    Current Drugs Ltd.
DT    Journal; General Review
LA    English
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L1    ANSWER 12 OF 12  CAPLUS  COPYRIGHT 2004 ACS on STN
AN    1999:249432  CAPLUS
DN    130:316683
TI    High-performance liquid chromatographic-electrospray ionization mass
      spectrometric analyses for the integration of natural products with modern
      high-throughput screening
AU    Strege, Mark A.
CS    Lilly Corporate Center, Lilly Research Laboratories, Eli Lilly and Co.,
      Indianapolis, IN, 46285, USA
SO    Journal of Chromatography, B: Biomedical Sciences and Applications (1999),
      725(1), 67-78
      CODEN: JCBBEP; ISSN: 0378-4347
PB    Elsevier Science B.V.
DT    Journal; General Review
LA    English
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                     CRETE 4TH EDITION/RE
E2            1      ARNOLD R/RE
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                     OF SCIENCES/RE
E5            1      ARNOLD R, 1907, P170, U S GEOLOGICAL SURVEY BULLETIN 322/RE
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E8            5      ARNOLD R, 1936, V58, P1295, J AM CHEM SOC/RE
E9            1      ARNOLD R, 1940, V5, P250, J ORG CHEM/RE
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                     MNITZ DE PUB 1998 0005/RE
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                     NS CHINA SEA AND TECHNOL/RE
E7            1      ARNOLD R, 1998, INTERNATIONAL CONFERENCE ON MULTICHIP MODULE
                     S AND HIGH DENSITY PACKAGING/RE
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                     OMETRY/RE
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                     E ON MASS SPECTROMETRY AND ALLIED TOPICS/RE
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E1            1      HATHOUT Y, 2003, V69, P1100, APPL ENVIRON MICROBIOL/RE
E2            1      HATHOUT Y, NO PUBLICATION GIVEN/RE
E3            0 --> HATHOUT Y,1999/RE
E4            2      HATHOUT, 1996, V24, P1395, DRUG METABOLISM AND DISPOSITION/R
                     E
E5            1      HATHOUT, V24, DRUG METABOLISM AND DISPOSITION/RE
E6            1      HATHOWAY S, 1951, THE ATLAS FOR THE CLINICAL USE OF THE MMPI
                     /RE
E7            1      HATHRELL S, 1982, V139, P136, ANN OF PHYS/RE
E8            8      HATHRELL S, 1982, V139, P136, ANN PHYS/RE
E9            2      HATHRELL S, 1982, V139, P136, ANN PHYS (N Y)/RE
E10           1      HATHRELL S, 1982, V142, P34, ANN OF PHYS/RE
E11           8      HATHRELL S, 1982, V142, P34, ANN PHYS/RE
E12           1      HATHRELL S, 1982, V142, P34, ANN PHYS (N Y)/RE

=> e leenders f, 1999/re
E1           11      LEENDERS F, 1998, V9, P1036, MAMM GENOME/RE
E2            3      LEENDERS F, 1998, V9, P1036, MAMMALIAN GENOME/RE
E3            0 --> LEENDERS F, 1999/RE
E4            1      LEENDERS F, 1999, ECOFYS/RE
E5            1      LEENDERS F, 1999, INVESTIGATION OF THE GRAMICIDIN S SYNTHETA
                     SE MULTIENZYME COMPLEX FOR BACILLUS BREVIS ATCC 999 PHD THES
                     IS TECHNICAL UNIVERSITY/RE
E6            1      LEENDERS F, 1999, V13, P1, RAPID COMMUN MASS SPECTROM/RE
E7            2      LEENDERS F, 1999, V13, P943, J RAPID COMMUN MASS SPECTROM/RE
E8            1      LEENDERS F, 1999, V13, P943, RAPID COMMUN IN MASS SPECTROM/R
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E9          28      LEENDERS F, 1999, V13, P943, RAPID COMMUN MASS SPECTROM/RE
E10          1      LEENDERS F, 1999, V13, P943, RAPID COMMUNICATIONS IN MASS SP
                    ECTROMETRY/RE
E11          1      LEENDERS F, 1999, V9, P1036, MAMMALIAN GENOME/RE
E12          1      LEENDERS F, 1999, WORKSHOP ON PV THERMAL SYSTEMS/RE

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            32 "LEENDERS F, 1999, V13, P943, J RAPID COMMUN MASS SPECTROM"/RE
                 ("LEENDERS F, 1999, V13, P943,"?/RE)
            32 "LEENDERS F, 1999, V13, P943, RAPID COMMUN IN MASS SPECTROM"/RE
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                 ("LEENDERS F, 1999, V13, P943,"?/RE)
            32 "LEENDERS F, 1999, V13, P943, RAPID COMMUNICATIONS IN MASS SPECT
               ROMETRY"/RE
                 ("LEENDERS F, 1999, V13, P943,"?/RE)
L4          32 ("LEENDERS F, 1999, V13, P943, J RAPID COMMUN MASS SPECTROM"/RE
               OR "LEENDERS F, 1999, V13, P943, RAPID COMMUN IN MASS SPECTROM"/
               RE OR "LEENDERS F, 1999, V13, P943, RAPID COMMUN MASS SPECTROM"/
               RE OR "LEENDERS F, 1999, V13, P943, RAPID COMMUNICATIONS IN
               MASS SPECTROMETRY"/RE)

=> e demirev p, 1999/re
E1          19      DEMIREV P, 1997, V69, P2893, ANAL CHEM/RE
E2           2      DEMIREV P, 1997, V69, P2893, PROBING COMBINATORIAL LIBRARY D
                    IVERSITY BY MASS SPECTROMETRY/RE
E3           0 --> DEMIREV P, 1999/RE
E4          60      DEMIREV P, 1999, V71, P2732, ANAL CHEM/RE
E5           4      DEMIREV P, 2000, V14, P777, RAPID COMMUN MASS SPECTROM/RE
E6           2      DEMIREV P, 2001, V73, ANAL CHEM IN PRESS/RE
E7          21      DEMIREV P, 2001, V73, P4566, ANAL CHEM/RE
E8          12      DEMIREV P, 2001, V73, P5725, ANAL CHEM/RE
E9           1      DEMIREV P, 2002, V73, P5725, ANAL CHEM/RE
E10          2      DEMIREV P, 2002, V74, P3262, ANAL CHEM/RE
E11          1      DEMIREV P, P309, MASS SPECTROM REV/RE
E12          1      DEMIREV T, 1992, V6, P187, RAPID COMMUN MASS SPECTROM/RE

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L5          60 "DEMIREV P, 1999, V71, P2732, ANAL CHEM"/RE
                 ("DEMIREV P, 1999, V71, P2732,"?/RE)

=> s (l1 or l2 or l3 or l4 or l5) and (fungi or fungus or fungal or pollen or yeast
or mold)
         62839 FUNGI
             6 FUNGIS
         62843 FUNGI
                 (FUNGI OR FUNGIS)
         41994 FUNGUS
            17 FUNGUSES
         62839 FUNGI
             6 FUNGIS
         92634 FUNGUS
                 (FUNGUS OR FUNGUSES OR FUNGI OR FUNGIS)
         39848 FUNGAL
             7 FUNGALS
         39852 FUNGAL
                 (FUNGAL OR FUNGALS)
         14225 POLLEN
          1937 POLLENS
         14456 POLLEN
                 (POLLEN OR POLLENS)
        171358 YEAST
         31120 YEASTS
        178753 YEAST
                 (YEAST OR YEASTS)
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        107041 MOLD
         56769 MOLDS
        130479 MOLD
                  (MOLD OR MOLDS)
L6            8 (L1 OR L2 OR L3 OR L4 OR L5) AND (FUNGI OR FUNGUS OR FUNGAL OR
                POLLEN OR YEAST OR MOLD)

=> d 1-8

L6   ANSWER 1 OF 8  CAPLUS  COPYRIGHT 2004 ACS on STN
AN   2003:459324  CAPLUS
TI   Fungal metabolite screening: database of 474 mycotoxins and
     fungal metabolites for dereplication by standardised liquid
     chromatography-UV-mass spectrometry methodology
AU   Nielsen, Kristian Fog; Smedsgaard, Jorn
CS   BioCentrum-DTU, Mycology Group, Technical University of Denmark, Lyngby,
     DK-2800, Den.
SO   Journal of Chromatography, A (2003), 1002(1-2), 111-136
     CODEN: JCRAEY; ISSN: 0021-9673
PB   Elsevier Science B.V.
DT   Journal
LA   English
RE.CNT  71     THERE ARE 71 CITED REFERENCES AVAILABLE FOR THIS RECORD
               ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6   ANSWER 2 OF 8  CAPLUS  COPYRIGHT 2004 ACS on STN
AN   2002:557062  CAPLUS
DN   137:259513
TI   Direct surface analysis of fungal species by matrix-assisted
     laser desorption/ionization mass spectrometry
AU   Valentine, Nancy B.; Wahl, Jon H.; Kingsley, Mark T.; Wahl, Karen L.
CS   Pacific Northwest National Laboratory, Richland, WA, 99352, USA
SO   Rapid Communications in Mass Spectrometry (2002), 16(14), 1352-1357
     CODEN: RCMSEF; ISSN: 0951-4198
PB   John Wiley & Sons Ltd.
DT   Journal
LA   English
RE.CNT  22     THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
               ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6   ANSWER 3 OF 8  CAPLUS  COPYRIGHT 2004 ACS on STN
AN   2002:456470  CAPLUS
DN   137:243340
TI   Production of iturin A by Bacillus amyloliquefaciens suppressing
     Rhizoctonia solani
AU   Yu, G. Y.; Sinclair, J. B.; Hartman, G. L.; Bertagnolli, B. L.
CS   Department of Crop Sciences, University of Illinois at Urbana-Champaign,
     Urbana, IL, 61801-4709, USA
SO   Soil Biology & Biochemistry (2002), 34(7), 955-963
     CODEN: SBIOAH; ISSN: 0038-0717
PB   Elsevier Science Ltd.
DT   Journal
LA   English
RE.CNT  39     THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD
               ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6   ANSWER 4 OF 8  CAPLUS  COPYRIGHT 2004 ACS on STN
AN   2002:298136  CAPLUS
DN   137:19414
TI   Integrated approach to explore the potential of marine microorganisms for
     the production of bioactive metabolites
AU   Wagner-Dobler, Irene; Beil, Winfried; Lang, Siegmund; Meiners, Marinus;
     Laatsch, Hartmut
CS   Gesellschaft fur Biotechnologische Forschung, Mascheroder Weg 1,
     Braunschweig, 38124, Germany
```

SO Advances in Biochemical Engineering/Biotechnology (2002), 74(Tools and Applications of Biochemical Engineering Science), 207-238
CODEN: ABEBDZ; ISSN: 0724-6145
PB Springer-Verlag
DT Journal; General Review
LA English
RE.CNT 120 THERE ARE 120 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:195072 CAPLUS
DN 137:334704
TI Characterization of intact microorganisms by MALDI mass spectrometry
AU Fenselau, Catherine; Demirev, Plamen A.
CS Department of Chemistry and Biochemistry, University of Maryland, College Park, MD, 20742, USA
SO Mass Spectrometry Reviews (2002), Volume Date 2001, 20(4), 157-171
CODEN: MSRVD3; ISSN: 0277-7037
PB John Wiley & Sons, Inc.
DT Journal; General Review
LA English
RE.CNT 113 THERE ARE 113 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:722112 CAPLUS
DN 135:269520
TI Characterization of protein biomarkers desorbed by MALDI from whole **fungal** cells
AU Amiri-Eliasi, Bijan; Fenselau, Catherine
CS Department of Chemistry and Biochemistry, University of Maryland, College Park, MD, 20742, USA
SO Analytical Chemistry (2001), 73(21), 5228-5231
CODEN: ANCHAM; ISSN: 0003-2700
PB American Chemical Society
DT Journal
LA English
RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:260581 CAPLUS
TI Discrimination between bacterial spore types using time-of-flight mass spectrometry and matrix-free infrared laser desorption and ionization
AU Ullom, J. N.; Frank, M.; Gard, E. E.; Horn, J. M.; Labov, S. E.; Langry, K.; Magnotta, F.; Stanion, K. A.; Hack, C. A.; Benner, W. H.
CS Lawrence Livermore National Laboratory, Livermore, CA, 94550, USA
SO Analytical Chemistry (2001), 73(10), 2331-2337
CODEN: ANCHAM; ISSN: 0003-2700
PB American Chemical Society
DT Journal
LA English
RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:165884 CAPLUS
DN 132:211777
TI Detection and classification of individual airborne microparticles using laser ablation mass spectroscopy and multivariate analysis
AU Parker, Eric P.; Trahan, Michael W.; Wagner, John S.; Rosenthal, Stephen E.; Whitten, William B.; Gieray, Rainer A.; Reilly, Peter T. A.; Lazar, Alexandru C.; Ramsey, J. Michael
CS Department 15334: Laser and Computational Initiatives, Sandia National Laboratories, Albuquerque, NM, 87185-1188, USA

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SO    Field Analytical Chemistry and Technology (2000), 4(1), 31-42
      CODEN: FACTFR; ISSN: 1086-900X
PB    John Wiley & Sons, Inc.
DT    Journal
LA    English
RE.CNT  33    THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT


=> index bioscience
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    62.60      62.81

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS,
       BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT,
       CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DISSABS, DDFB, DDFU,
       DGENE, DRUGB, DRUGMONOG2, ...' ENTERED AT 15:17:11 ON 09 JAN 2004

68 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> s (mass spectroscopy or mass spectrometry) and (fungi or fungus or fungal or
pollen or yeast or mold)
        393    FILE AGRICOLA
        271    FILE ANABSTR
         48    FILE AQUASCI
        237    FILE BIOBUSINESS
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        443    FILE BIOTECHABS
        443    FILE BIOTECHDS
       1566    FILE BIOTECHNO
        925    FILE CABA
         80    FILE CANCERLIT
       2487    FILE CAPLUS
         85    FILE CEABA-VTB
         14    FILE CEN
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          6    FILE CIN
          9    FILE CONFSCI
         23    FILE CROPB
         23    FILE CROPU
        192    FILE DISSABS
         49    FILE DDFB
         38    FILE DDFU
        749    FILE DGENE
         49    FILE DRUGB
         80    FILE DRUGU
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         36    FILE EMBAL
       2737    FILE EMBASE
       1000    FILE ESBIOBASE
        439    FILE FEDRIP
        188    FILE FROSTI
        112    FILE FSTA
         14    FILE GENBANK
          9    FILE HEALSAFE
        124    FILE IFIPAT
        539    FILE JICST-EPLUS
          9    FILE KOSMET
        795    FILE LIFESCI
       1288    FILE MEDLINE
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        39   FILE NTIS
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      1332   FILE PASCAL
         1   FILE PHAR
        16   FILE PHIN
       121   FILE PROMT
         2   FILE RDISCLOSURE
      2218   FILE SCISEARCH
      1408   FILE TOXCENTER
     10833   FILE USPATFULL
       536   FILE USPAT2
         4   FILE VETB
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       150   FILE WPIDS
       150   FILE WPINDEX

  52 FILES HAVE ONE OR MORE ANSWERS,   68 FILES SEARCHED IN STNINDEX

L7   QUE (MASS SPECTROSCOPY OR MASS SPECTROMETRY) AND (FUNGI OR FUNGUS OR FUNGA
       L OR POLLEN OR YEAST OR MOLD)

=> s (mass spectroscopy or mass spectrometry)(5a)(maldi or tof or cid or esi or
matrix assisted or time of flight or collision induced or electrospray)
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      5231   FILE ANABSTR
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      4143   FILE BIOTECHNO
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     23129   FILE CAPLUS
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        58   FILE CEN
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       397   FILE CONFSCI
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       880   FILE DGENE
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         3   FILE IMSDRUGNEWS
       394   FILE DRUGU
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      6037   FILE ESBIOBASE
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       216   FILE FSTA
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       1877   FILE LIFESCI
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       8838   FILE MEDLINE
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        413   FILE NTIS
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         21   FILE OCEAN
       5862   FILE PASCAL
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        359   FILE PROMT
          2   FILE RDISCLOSURE
      15719   FILE SCISEARCH
       4614   FILE TOXCENTER
       5162   FILE USPATFULL
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         41   FILE VETU
        400   FILE WPIDS
        400   FILE WPINDEX

  54 FILES HAVE ONE OR MORE ANSWERS,   68 FILES SEARCHED IN STNINDEX

L8    QUE (MASS SPECTROSCOPY OR MASS SPECTROMETRY)(5A)(MALDI OR TOF OR CID OR ES
      I OR MATRIX ASSISTED OR TIME OF FLIGHT OR COLLISION INDUCED OR ELECTRO
      SPRAY)

=> s l8(L)(fungi or fungus or fungal or pollen or yeast or mold) and py<2001
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         31   FILE AGRICOLA
         10   FILE ANABSTR
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          8   FILE BIOBUSINESS
        139   FILE BIOSIS
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          5   FILE BIOTECHABS
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         93   FILE BIOTECHNO
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  18 FILES SEARCHED...
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          1   FILE USPAT2
          1   FILE WPIDS
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          1   FILE WPINDEX

  35 FILES HAVE ONE OR MORE ANSWERS,   68 FILES SEARCHED IN STNINDEX

L9   QUE L8(L)(FUNGI OR FUNGUS OR FUNGAL OR POLLEN OR YEAST OR MOLD) AND PY<200
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=> s l9 and (profil#### or marker or biomarker or finger print###)
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          1   FILE AGRICOLA
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          1   FILE BIOBUSINESS
         10   FILE BIOSIS
   9 FILES SEARCHED...
          6   FILE BIOTECHNO
  12 FILES SEARCHED...
          2   FILE CABA
         12   FILE CAPLUS
  16 FILES SEARCHED...
  18 FILES SEARCHED...
          0*  FILE CONFSCI
          1   FILE DISSABS
  24 FILES SEARCHED...
  29 FILES SEARCHED...
          7   FILE EMBASE
          7   FILE ESBIOBASE
  33 FILES SEARCHED...
          0*  FILE FEDRIP
          0*  FILE FOREGE
          1   FILE FROSTI
          1   FILE FSTA
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  43 FILES SEARCHED...
          2   FILE LIFESCI
          0*  FILE MEDICONF
          8   FILE MEDLINE
  48 FILES SEARCHED...
  49 FILES SEARCHED...
          2   FILE PASCAL
  52 FILES SEARCHED...
          0*  FILE PHAR
          1   FILE PHIN
          3   FILE PROMT
         11   FILE SCISEARCH
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       269   FILE USPATFULL
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  67 FILES SEARCHED...

  19 FILES HAVE ONE OR MORE ANSWERS,    68 FILES SEARCHED IN STNINDEX

L10  QUE L9 AND (PROFIL#### OR MARKER OR BIOMARKER OR FINGER PRINT###)

=> d rank
F1          269   USPATFULL
F2           12   CAPLUS
F3           11   SCISEARCH
F4           10   BIOSIS
F5            8   MEDLINE
F6            7   EMBASE
F7            7   ESBIOBASE
F8            6   BIOTECHNO
F9            5   TOXCENTER
F10           3   PROMT
F11           2   CABA
F12           2   LIFESCI
F13           2   PASCAL
F14           1   AGRICOLA
F15           1   BIOBUSINESS
F16           1   DISSABS
F17           1   FROSTI
F18           1   FSTA
F19           1   PHIN


=> file f2-19
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    25.65      88.46

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=> s l10
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   5 FILES SEARCHED...
   6 FILES SEARCHED...
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  12 FILES SEARCHED...
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L11          81 L10

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PROCESSING COMPLETED FOR L11
L12          19 DUP REM L11 (62 DUPLICATES REMOVED)
                ANSWERS '1-12' FROM FILE CAPLUS
                ANSWER '13' FROM FILE SCISEARCH
                ANSWERS '14-16' FROM FILE PROMT
                ANSWER '17' FROM FILE BIOBUSINESS
                ANSWER '18' FROM FILE DISSABS
                ANSWER '19' FROM FILE PHIN

=> d bib abs 1-19

L12  ANSWER 1 OF 19  CAPLUS  COPYRIGHT 2004 ACS on STN DUPLICATE 1
AN   2001:15101  CAPLUS
DN   134:158701
TI   Characterization of Aspergillus spores by matrix-assisted laser
     desorption/ionization time-of-flight mass spectrometry
AU   Li, Tzu-Ying; Liu, Biing-Hui; Chen, Yu-Chie
CS   Institute of Toxicology, Tzu Chi University, Hualien, 970, Taiwan
SO   Rapid Communications in Mass Spectrometry (2000), 14(24),
     2393-2400
     CODEN: RCMSEF; ISSN: 0951-4198
PB   John Wiley & Sons Ltd.
```

DT Journal
LA English
AB The intact **fungal** spores of several strains of 4 Aspergillus species, Aspergillus flavus, A. oryzae, A. parasiticus, and A. sojae, were directly analyzed by matrix-assisted laser desorption/ionization ( **MALDI**) **time**-of-**flight mass spectrometry**. Very simple MALDI mass spectra are obtained by directly mixing spores with a matrix such as .alpha.-cyano-4-hydroxycinnamic acid or sinapinic acid. The mass spectra are obtained from the ablation of cell walls of spores owing to the acidity of the matrix soln. The MALDI results show that aflatoxigenic strains and non-aflatoxigenic strains have different mass peak **profiles**. Furthermore, the MALDI results of non-aflatoxigenic A. flavus and A. parasiticus spores resemble those of the closely related A. oryzae and A. sojae spores, resp.
RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2
AN 2001:15096 CAPLUS
DN 134:246820
TI Identification of an N-(hydroxysulfonyl)oxy metabolite using in vitro microorganism screening, high-resolution and tandem electrospray ionization mass spectrometry
AU Pilard, Serge; Caradec, Fabrice; Jackson, Peter; Luijten, Wim
CS UPJV, Laboratoire des Glucides, Amiens, 80039, Fr.
SO Rapid Communications in Mass Spectrometry (**2000**), 14(24), 2362-2366
CODEN: RCMSEF; ISSN: 0951-4198
PB John Wiley & Sons Ltd.
DT Journal
LA English
AB Preliminary metabolic **profiling** of a drug under pre-clin. development (S 19812) revealed the presence of a minor unknown metabolite with a pos. ion electrospray ionization (ESI) mass spectrum identical to that of the unchanged compd. Since the low concn. of the compd. did not allow any addnl. expts., preparative bioconversion using **fungi** was used to obtain a substantial amt. of the mol. Neg. ion **ESI** -MS and tandem **mass spectrometry** (MS/MS) in combination with accurate mass measurements obtained on a quadrupole/time-of-flight instrument (Q-TOF) led to the pos. identification of a hydroxylamide sulfoconjugated metabolite.
RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3
AN 2001:65927 CAPLUS
DN 134:211383
TI Design and microstructuring of PDMS surfaces for improved marine biofouling resistance
AU Petronis, Sarunas; Berntsson, Kent; Gold, Julie; Gatenholm, Paul
CS Department of Applied Physics, Chalmers University of Technology, Goeteborg, SE-412 96, Swed.
SO Journal of Biomaterials Science, Polymer Edition (**2000**), 11(10), 1051-1072
CODEN: JBSEEA; ISSN: 0920-5063
PB VSP BV
DT Journal
LA English
AB In this study room temp. vulcanized (RTV) silicone surfaces with designed surface microstructure and well-defined surface chem. were prepd. Their resistance to marine macrofouling by barnacles Balanus improvisus was tested in field expts. for deducing optimal surface topog. dimensions together with a better understanding of macrofouling mechanisms. Polydimethylsiloxane (PDMS) surfaces were microstructured by casting the

PDMS pre-polymer on microfabricated **molds**. The master **molds** were made by utilizing photolithog. and anisotropic etching of monocryst. silicon wafers. Several iterative casting steps of PDMS and epoxy were used to produce large quantities of microstructured PDMS samples for field studies. The microstructured PDMS surface consisted of arrays of pyramids or riblets creating a surface arithmetic mean roughness ranging from 5 to 17 .mu.m for different microstructure sizes and geometries, as detd. by SEM. Chemophys. properties of the microstructured films were investigated by electron spectroscopy for chem. anal., **time**-of-**flight** secondary ion **mass spectroscopy** and dynamic contact angle measurements. Films were chem. homogeneous down to the submicron level. Hydrophobicity and contact angle hysteresis increased with increased surface roughness. Field tests on the west coast of Sweden revealed that the microstructure contg. the largest riblets (**profile** height 69 .mu.m) reduced the settling of barnacles by 67%, whereas the smallest pyramids had no significant influence on settling compared to smooth PDMS surfaces. The effect of dimensions and geometry of the surface microstructures on the B. improvisus larvae settling is discussed.

RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 4
AN 2000:159323 CAPLUS
DN 132:319392
TI Characterization of **fungal** spores by laser desorption/ionization **time**-of-**flight mass spectrometry**
AU Welham, K. J.; Domin, M. A.; Johnson, K.; Jones, L.; Ashton, D. S.
CS ULIRS Mass Spectrometry Laboratory, Department of Pharmaceutical and Biological Chemistry, The School of Pharmacy, University of London, London, WC1N 1AX, UK
SO Rapid Communications in Mass Spectrometry (**2000**), 14(5), 307-310
CODEN: RCMSEF; ISSN: 0951-4198
PB John Wiley & Sons Ltd.
DT Journal
LA English
AB A considerable vol. of research has now been completed on the application of **matrix-assisted** laser desorption/ionization **mass spectrometry** (**MALDI**-MS) to the anal. of bacteria; however, to date no definitive studies have been made using this technique on **fungi**. Preliminary studies on the application of the MALDI-MS methodol., previously developed for the anal. of bacteria, to the anal. of intact **fungal** spores are described here. **MALDI**-MS and **electrospray mass spectrometry** enable the high mol. wt. anal. of proteins, glycoproteins, oligosaccharides and oligonucleotides. Using MALDI-MS with bacteria has demonstrated the ability to produce "fingerprints" of the intact cells with the ions obsd. being assocd. with the proteinaceous components of the cell wall. This paper reports the adaptation of this technique to the direct anal. of **fungal** cells. The high percentage of carbohydrate in the **fungal** cell wall indicates that the ions obsd. in the mass spectrometric expts. may be of carbohydrate origin. Penicillium spp., Scytalidium dimidiatum and Trichophyton rubrum have been studied in this preliminary investigation and all show individually distinctive spectra which would appear to provide a **profile** of the cellular material with discrete peaks being obsd. over the mass range 2 to 13 kDa. The spectra obtained are reproducible within the method used but, as shown in our previous studies on bacteria, washing may selectively release components from the **fungal** cell wall.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 5
AN 2000:323975 CAPLUS

DN 133:86552
TI New sequences and new fungal producers of peptaibol antibiotics antiamoebins
AU Jaworski, Andreas; Bruckner, Hans
CS Department of Food Sciences, Institute of Nutritional Science, University of Giessen, Giessen, 35390, Germany
SO Journal of Peptide Science (2000), 6(4), 149-167
CODEN: JPSIEI; ISSN: 1075-2617
PB John Wiley & Sons Ltd.
DT Journal
LA English
AB Mixts. of the microheterogeneous 16-mer peptaibol antibiotics called antiamoebins [AAM] have been isolated from the culture broths of strains of the filamentous **fungi** Stilbella erythrocephala ATCC 28144, Stilbella fimetaria CBS 548.84 and Gliocladium catenulatum CBS 511.66. Sequences were detd. using online HPLC together with pos.- and neg.-ion **electrospray** ionization **mass spectrometry**.
Some characteristic features are recognized in the mass spectrometric fragmentation pattern of AAM. From a sample originally used for sequencing AAM (from Hindustan Antibiotics, Ltd., Pimpri, Poona-411018, India), and a sample of AAM com. available (from Sigma Chems., St. Louis, MO, USA) HPLC elution **profiles** and sequences were assigned.
Further, sequences of AAM previously isolated from Emericellopsis synnematicola CBS 176.60 and Emericellopsis salmosynnemata CBS 382.62 were detd. The peptide designated AAM I was the most abundant in all isolates and its structure could be confirmed. AAM II was detectable as a minor component (1.9%) only in the original sample of AAM, but not in the other isolates. The structures of AAM III, IV and V, which had previously been partly assigned, were definitely established, and the new sequences AAM VI-XVI were elucidated. AAM showing Phe1/Leu1 or Phe1/Val1 exchange, resp., are produced in amts. only by S. erythrocephala. Sequences, HPLC elution **profiles** ("fingerprints") and relative amts. of peptides of all isolates were correlated.
RE.CNT 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 6
AN 2000:258180 CAPLUS
DN 133:14253
TI Matrix-assisted laser-desorption/ionization **time**-of-**flight mass spectrometry** and its application to the analysis of **fungal** spores
AU Welham, K. J.; Domin, M. A.; Johnson, K.; Jones, L.; Ashton, D. S.
CS ULIRS Mass Spectrometry Laboratory, Department of Pharmaceutical and Biological Chemistry, The School of Pharmacy, University of London, London, WC1N 1AX, UK
SO Pharmacy and Pharmacology Communications (2000), 6(3), 107-111
CODEN: PPCOFN; ISSN: 1460-8081
PB Royal Pharmaceutical Society of Great Britain
DT Journal
LA English
AB Although much research has been completed on the application of **matrix-assisted** laser-desorption/ionization **mass spectrometry** (**MALDI**-MS) to the anal. of bacteria, no definitive studies have yet been performed on the anal. of **fungi**. Preliminary studies on the application of the MALDI-MS methodol., previously developed for the anal. of bacteria, to the anal. of intact **fungal** spores are described here. **MALDI**-MS and **electrospray mass spectrometry** enable the anal. of high mol.-wt. proteins, glycoproteins, oligosaccharides and oligonucleotides. Using MALDI-MS with bacteria has enabled the prodn. of "fingerprints" of the intact cells; the ions obsd. are assocd. with the proteinaceous components of the cell wall. This study reports the adaptation of this technique to the direct anal. of **fungal** cells. Because of the large amt. of carbohydrate in the **fungal**

cell wall, the ions obsd. in the mass spectrometric expts. might be of carbohydrate origin. Penicillium spp., Scytalidium dimidiatum and Trichophyton rubrum have been studied in this preliminary investigation and all furnish individually distinctive spectra which seem to provide a **profile** of the cellular material with discrete peaks being obsd. over the mass range 2 to 13 kDa. The spectra obtained are reproducible within the method used but, as shown in our previous studies on bacteria, washing might selectively release components from the **fungal** cell wall.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 7
AN 1999:560853 CAPLUS
DN 132:60756
TI **Electrospray** ionization tandem **mass spectrometry** (**ESI**-MS/MS) analysis of the lipid molecular species composition of **yeast** subcellular membranes reveals acyl chain-based sorting/remodeling of distinct molecular species en route to the plasma membrane
AU Schneiter, Roger; Brugger, Britta; Sandhoff, Roger; Zellnig, Gunther; Leber, Andrea; Lampl, Manfred; Athenstaedt, Karin; Hrastnik, Claudia; Eder, Sandra; Daum, Gunther; Paltauf, Fritz; Wieland, Felix T.; Kohlwein, Sepp D.
CS Spezialforschungsbereich Biomembrane Research Center, Institut fur Biochemie und Lebensmittelchemie, Technische Universitat Graz, Graz, A-8010, Austria
SO Journal of Cell Biology (**1999**), 146(4), 741-754
CODEN: JCLBA3; ISSN: 0021-9525
PB Rockefeller University Press
DT Journal
LA English
AB Nano-**electrospray** ionization tandem **mass spectrometry** (nano-**ESI**-MS/MS) was employed to det. qual. differences in the lipid mol. species compn. of a comprehensive set of organellar membranes, isolated from a single culture of Saccharomyces cerevisiae cells. Marked differences in the acyl chain compn. of biosynthetically related phospholipid classes were obsd. Acyl chain satn. was lowest in phosphatidylcholine (PC, 15.4%) and phosphatidylethanolamine (PE, 16.2%), followed by phosphatidylserine (PS, 29.4%), and highest in phosphatidylinositol (PI, 53.1%). The lipid mol. species **profiles** of the various membranes were generally similar, with a deviation from a calcd. av. **profile** of approx. .+-.20%. Nevertheless, clear distinctions between the mol. species **profiles** of different membranes were obsd., suggesting that lipid sorting mechanisms were operating at the level of individual mol. species to maintain the specific lipid compn. of a given membrane. Most notably, the plasma membrane was enriched in satd. species of PS and PE. The nature of the sorting mechanism that dets. the lipid compn. of the plasma membrane was investigated further. The accumulation of mono-unsatd. species of PS at the expense of di-unsatd. species in the plasma membrane of wild-type cells was reversed in elo3.DELTA. mutant cells, which synthesize C24 fatty acid-substituted sphingolipids instead of the normal C26 fatty acid-substituted species. This observation suggests that acyl chain-based sorting and/or remodeling mechanisms are operating to maintain the specific lipid mol. species compn. of the **yeast** plasma membrane.

RE.CNT 73 THERE ARE 73 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 8
AN 1999:129007 CAPLUS
DN 130:301822
TI Online nonaqueous capillary electrophoresis and electrospray mass spectrometry of tricyclic antidepressants and metabolic **profiling** of amitriptyline by Cunninghamella elegans

AU Liu, Chun-Sheng; Li, Xing-Fang; Pinto, Devanand; Hansen, Eugene B., Jr.; Cerniglia, Carl E.; Dovichi, Norman J.
CS Department Chemistry, University Alberta, Edmonton, AB, Can.
SO Electrophoresis (**1998**), 19(18), 3183-3189
CODEN: ELCTDN; ISSN: 0173-0835
PB Wiley-VCH Verlag GmbH
DT Journal
LA English
AB An online nonaq. capillary electrophoresis-**electrospray mass spectrometry** (**ESI**-MS) was developed using a com. ion spray interface. The nonaq. capillary electrophoresis ESI-MS system was used to **profile** tricyclic antidepressants of similar structures and mass-to-charge ratios. The authors found that pure MeOH can be used as a sheath liq. to obtain stable ion spray from nonaq. capillary electrophoresis. The flow rate of the coaxial nebulizing gas affected baseline signals, sepn. efficiency, and migration times. Other nonaq. capillary electrophoresis operating conditions and electrospray parameters were optimized for enhanced baseline sepn. and high sensitivity detection. The effect of sample stacking on sepn. and detection was evaluated. The calcd. detection limits were 3 pg injected onto the capillary. ESI mass spectra of tricyclic antidepressants from a single quadrupole MS were obtained and elucidated. The information was used to propose fragmentation pathways of the tricyclic antidepressants. The method was also used to analyze the metabolites of amitriptyline produced by the **fungus** C. elegans. 16 Metabolites were detected and most of them were tentatively identified as demethylated and/or hydroxylated, and/or N-oxidized products.
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 9
AN 1997:403133 CAPLUS
DN 127:94242
TI HPLC-MS/MS **Profiling** of Tryptophan-Derived Alkaloids in Food: Identification of Tetrahydro-.beta.-carbolinedicarboxylic Acids
AU Gutsche, B.; Herderich, M.
CS Lehrstuhl fuer Lebensmittelchemie, Universitaet Wuerzburg, Wuerzburg, 97074, Germany
SO Journal of Agricultural and Food Chemistry (**1997**), 45(7), 2458-2462
CODEN: JAFCAU; ISSN: 0021-8561
PB American Chemical Society
DT Journal
LA English
AB A method for selective detection of 1,2,3,4-tetrahydro-.beta.-carbolinecarboxylic acids (THCCs) was developed based on **electrospray** ionization-tandem **mass spectrometry** coupled to liq. chromatog. (HPLC-**ESI**-MS/MS). Low-energy collision-induced dissocn. (CID) led to characteristic fragment ions due to neutral loss of 73 amu. Subsequently, const. neutral loss scanning was used for substructure specific screening of THCCs in food samples. Detection limits for HPLC-ESI-MS/MS anal. of THCCs applying neutral loss expts. were established at 100 ng/mL (ca. 2.5 pmol on column). Application of this MS/MS method enabled us to detect THCC derivs. derived from Pictet-Spengler condensation of tryptophan with .alpha.-oxo acids. Subsequently, diastereomeric 1,2,3,4-tetrahydro-.beta.-carboline-1,3-dicarboxylic acid 3a/b, 1-methyl-1,2,3,4-tetrahydro-.beta.-carboline-1,3-dicarboxylic acid 4a/b, and 1-(2'-carboxyethyl)-1,2,3,4-tetrahydro-.beta.-carboline-3-carboxylic acid 5a/b were identified in alc. beverages, seasoning sauces, **yeast** ext., and fruit products for the 1st time. Most food samples under study contained 3a/b and 4a/b in significant amts. 5A/b was identified in soy sauce, worcestershire sauce, seasoning sauce, and **yeast** ext. Due to the excellent selectivity of tandem mass spectrometry coeluting tetrahydro-.beta.-carboline derivs. could be identified unequivocally by HPLC-ESI-MS/MS.

L12 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 10
AN 1997:335519 CAPLUS
DN 127:62808
TI Identification of two-dimensional gel electrophoresis resolved **yeast** proteins by **matrix-assisted** laser desorption ionization **mass spectrometry**
AU Larsson, Thomas; Norbeck, Joakim; Karlsson, Hasse; Karlsson, Karl-Anders; Blomberg, Anders
CS Medical Biochemistry, Goteborg University, Goteborg, Swed.
SO Electrophoresis (**1997**), 18(3-4), 418-423
CODEN: ELCTDN; ISSN: 0173-0835
PB VCH
DT Journal
LA English
AB Protein ext. from **yeast** cells growing exponentially in saline medium was sepd. by two-dimensional PAGE (2-D PAGE), with the sepn. in the first dimension on a wide range immobilized pH (3-10) gradient. From one preparative 2-D gel a no. of previously identified proteins were used as test material for our initial **matrix-assisted** laser desorption ionization **mass spectrometry** (**MALDI** -MS) efforts on large scale rapid protein spot identification. Sample prepn. via in-gel trypsin digestion was slightly modified to be compatible to MS anal., and via this modified procedure MS generated peptide mass **profiles** could, in most cases with good precision, identify the protein in question. Preferential ionization was tested on a **yeast** aldehyde dehydrogenase (ALD7), and it was shown that the ionization of some peptides was clearly suppressed by the presence of others. Roughly 50% of the obsd. peptide masses was found by the search routines in the database, and the mass measurement accuracy of the peptides was within 0.5 Da. Silver-stained gels could be used with good results for the generation of peptides to be analyzed by MALDI-MS. For one of the 2-D resolved proteins, glycerol 3-phosphatase (GPP1), the post-source decay (PSD) spectrum proved crucial in identification.

L12 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 11
AN 1996:330368 CAPLUS
DN 125:52639
TI Using direct **electrospray mass spectrometry** in taxonomy and secondary metabolite **profiling** of crude **fungal** extracts
AU Smedsgaard, Joern; Frisvad, Jens C.
CS Department Biotechnology, Technical University Denmark, Lyngby, 2800, Den.
SO Journal of Microbiological Methods (**1996**), 25(1), 5-17
CODEN: JMIMDQ; ISSN: 0167-7012
PB Elsevier
DT Journal
LA English
AB Important information about sample compn. can be obtained within a few minutes by injecting a complex mixt. like a crude ext. of a fungal culture prepd. for std. HPLC anal. directly into an electrospray mass spectrometer using an FIA-ESMS type of setup. The limited fragmentation and high sensitivity of ESMS were used in this study to provide mass **profiles** from ethylacetate/methanol/chloroform exts. from cultures of 10 of the most common Penicillium species assocd. with stored cereals. The anal. parameters were optimized to reduce fragmentations and reactions in ESMS; hence only the protonated or sodiated ions were obsd. for most compds. The anal. demonstrated that ions corresponding to the protonated mol. ions (M + H+) from most of the known secondary metabolites and mycotoxins produced by these species could be obsd. in the ESMS spectra. A no. of other distinct species-specific ion were obsd. as well. The 10 different species could be discriminated either by ions corresponding to known or unknown metabolites. By creating a database of mass spectra obtained from anal. of different species using the facility included in std. MS software, it was possible to use a simple library search to

identify most of the species included in this study on the basis of their mass spectra.

L12 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:372822 CAPLUS
DN 127:62826
TI Identification and detection of bacteria: electrospray MS-MS versus derivatization/GC-MS
AU Fox, Alvin; Black, Gavin; Fox, Karen; Wunschel, David
CS Dept. Microbiol. Immunol., USC School Medicine, Columbia, SC, 29208, USA
SO Proceedings of the ERDEC Scientific Conference on Chemical and Biological Defense Research, Aberdeen Proving Ground, Md., Nov. 15-18, 1994 (**1996**), Meeting Date 1994, 39-44. Editor(s): Berg, Dorothy A. Publisher: National Technical Information Service, Springfield, Va. CODEN: 64NAAX
DT Conference
LA English
AB Identification of chem. **markers** and demonstration of their taxonomic utility is essential in conjunction with development of a real-time biodetection strategy. Pyrolysis MS-MS is an attractive technique in terms of rapidity of anal. Unfortunately, many **marker** compds. are destroyed by the drastic depolymn./volatilization conditions. A gentler alternative is **electrospray** ionization tandem **mass spectrometry** (**ESI** MS-MS) which generates simple parent ion spectra and readily interpretable product spectra. This lab. has developed a scheme for identification of Bacillus anthracis, a key biol. agent, using carbohydrate **profiling** of spores and vegetative cells identified as alditol acetate derivs. by GC-MS and 16S/23S interspace region PCR products. Further characterization of these chem. **markers** is in progress. Using ESI-MS-MS, we have used muramic acid as a general **marker** for bacteria allowing their ready differentiation from **fungi**. Sample prepn. is minimal; hydrolysis in acid is followed by extn. with an org. base (or barium carbonate neutralization). A logical extension of this work would include anal. of monomers and polymers, (naturally present in microbial cells) without prior depolymn. We have demonstrated that dipicolinic acid (DPA, a **marker** for spores) on ESI generates a mol. ion as a parent, M-H- (m/z 166) and characteristic daughter ions in MS-MS mode [m/z 122 (loss of CO2) and m/z 78 (loss of 2CO2)]. In contrast, pyrolysis destroys DPA producing pyridine by decarboxylation (seen as m/z 79) in the parent spectrum. We aim to demonstrate that ESI MS-MS anal. for DPA can specifically differentiate spores from vegetative cells. Mols. with more general potential in biodetection include nucleotides coded by the rRNA operon. These mols. are universally found in high concn. in bacterial cells but can also be amplified by PCR. Encouraging preliminary results have been obtained with MS-MS anal. of synthetic oligonucleotides. Obsd. and calcd. m/z values are in close agreement. There is considerable potential for ESI MS-MS in rapid biodetection of monomers, oligomers and polymers.

L12 ANSWER 13 OF 19 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
AN 94:774977 SCISEARCH
GA The Genuine Article (R) Number: PU984
TI ELECTROSPRAY TANDEM MASS-SPECTROMETRY FOR ANALYSIS OF NATIVE MURAMIC ACID IN WHOLE BACTERIAL-CELL HYDROLYSATES
AU BLACK G E; FOX A (Reprint); FOX K; SNYDER A P; SMITH P B W
CS UNIV S CAROLINA, SCH MED, COLUMBIA, SC, 29208 (Reprint); UNIV S CAROLINA, SCH MED, COLUMBIA, SC, 29208; USA CHEM RES, CTR DEV & ENGN, ABERDEEN PROVING GROUND, MD, 21010; GEOCENTERS INC, GUNPOWDER BRANCH, ABERDEEN PROVING GROUND, MD, 21010
CYA USA
SO ANALYTICAL CHEMISTRY, (**01 DEC 1994**) Vol. 66, No. 23, pp. 4171-4176.
ISSN: 0003-2700.
DT Article; Journal

FS PHYS; LIFE
LA ENGLISH
REC Reference Count: 19
*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*
AB Muramic acid is an amino sugar found in eubacterial cell walls and not elsewhere in nature. This study explored the use of **electrospray** tandem **mass spectrometry** (**ESI** MS/MS) in analysis of underivatized muramic acid in bacterial hydrolysates. **Fungal** hydrolysates were used as negative controls. The only processing used was hydrolysis in sulfuric acid followed by extraction with an organic base (N,N-dioctylmethylamine) to remove the acid prior to ESI MS/MS analysis. Compared with pure muramic acid, bacterial hydrolysates produced more complex ESI mass spectra, such that the protonated molecular ion at m/z 252 was barely detectable. In contrast, product ion spectra of m/z 252 were identical among pure muramic acid, Gram positive bacteria, and Gram negative bacteria. However, no characteristic product ion spectrum was manifested from m/z 252 in **fungal** samples. This allowed ready, visual differentiation of bacteria and **fungi**. Multiple reaction monitoring (MRM) following muramic acid fragmentations (m/z 252 --> 144 and m/z 252 --> 126) increased sensitivity and allowed quantitative differentiation when compared with the MRM of the internal standard N-methyl-D-glucamine (m/z 196 --> 44). ESI MS/MS required minimal sample preparation and allowed rapid sample throughput for analysis of muramic acid in whole bacterial cell hydrolysates.

L12 ANSWER 14 OF 19 PROMT COPYRIGHT 2004 Gale Group on STN

AN 2000:57338 PROMT
TI Manufacturers and Suppliers.(Alphabetical list of companies)
SO Lasers & Optronics, (**Nov 1999**) Vol. 18, No. 11, pp. S8.
ISSN: 0892-9947.
PB Cahners Publishing Company
DT Newsletter
LA English
WC 71777
*FULL TEXT IS AVAILABLE IN THE ALL FORMAT*
AB A
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Subscription: $61.00 per year. Published monthly.

L12 ANSWER 15 OF 19 PROMT COPYRIGHT 2004 Gale Group on STN

AN 2000:2470 PROMT
TI EUROPEAN PATENT DISCLOSURES PRIVATE.
SO BIOWORLD Today, (**29 Dec 1999**) Vol. 10, No. 247.
PB American Health Consultants, Inc.
DT Newsletter
LA English
WC 2624
*FULL TEXT IS AVAILABLE IN THE ALL FORMAT*
AB Acacia Biosciences WO 99/58720 Gene expression **profiling** Kirkland, Wash. Methods, systems, and instrumentation for quantifying the relatedness of gene expression **profiles**.
THIS IS THE FULL TEXT: COPYRIGHT 1999 American Health Consultants, Inc.

Subscription: $1350.00 per year. Published daily (5 times a week). Box 740021, Atlanta, GA 30374.

L12 ANSWER 16 OF 19 PROMT COPYRIGHT 2004 Gale Group on STN

AN 94:582623 PROMT
TI Analytical chemistry. (advancements in separation science)
AU Russell, David A.

SO Chemistry and Industry, (**3 Oct 1994**) No. 19, pp. 783(2).
ISSN: ISSN: 0009-3068.
PB Society of Chemical Industry
DT Newsletter
LA English
WC 1073
*FULL TEXT IS AVAILABLE IN THE ALL FORMAT*
AB Over the last review period there has been a number of reported developments in the area of separation science. The separation of large DNA fragments has been achieved using pulsed field capillary zone electrophoresis (CZE) (J Sudor and M V Novotny, Anal. Chem., 1994, 66, 2446). The CZE technique, using an entangled polyacrylamide solution, was applied to large DNA samples under pulsed-field conditions. Highly efficient separations were obtained using biased sinusoidal field and field-inversion pulsing regimes. [Lambda]DNA standards (8.348.5kb) and 48.5kb-1Mb [Lambda]DNA concatamers clearly demonstrated an improved separation time of about 10-50 times over conventional slab-gel techniques. The authors also suggested that the CZE method appeared more sensitive and amenable to component quantification and method automation.

L12 ANSWER 17 OF 19 BIOBUSINESS COPYRIGHT 2004 BIOSIS on STN
AN 97:66571 BIOBUSINESS
DN 0924106
TI HPLC-MS-MS **profiling** of tryptophan-derived alkaloids in food: Identification of tetrahydro-beta-carbolinedicarboxylic acids.
AU Gutsche B; Herderich M
CS Lehrstuhl Lebensmittelchem., Univ. Wuerzburg, Am Hubland, 97074 Wuerzburg, Germany.
SO Journal of Agricultural and Food Chemistry, (**1997**) Vol.45, No.7, p.2458-2462.
ISSN: 0021-8561.
DT ARTICLE
FS NONUNIQUE
LA English
AB A method for selective detection of 1,2,3,4-tetrahydro-beta-carbolinecarboxylic acids (THCCs) was developed based on **electrospray** ionization-tandem **mass spectrometry** coupled to liquid chromatography (HPLC-**ESI**-MS/MS). Low-energy collision-induced dissociation (CID) led to characteristic fragment ions due to neutral loss of 73 amu. Subsequently, constant neutral loss scanning was used for substructure specific screening of THCCs in food samples. Detection limits for HPLC-ESI-MS/MS analysis of THCCs applying neutral loss experiments were established at 100 ng mL-1 (ca. 2.5 pmol on column). Application of this MS/MS method enabled us to detect THCC derivatives derived from Pictet-Spengler condensation of tryptophan with alpha-oxo acids. Subsequently, diastereomeric 1,2,3,4-tetrahydro-beta-carboline-1,3-dicarboxylic acid 3a/b, 1-methyl-1,2,3,4-tetrahydro-beta-carboline-1,3-dicarboxylic acid 4a/b, and 1-(2'-carboxyethyl)-1,2,3,4-tetrahydro-beta-carboline-3-carboxylic acid 5a/b were identified in alcoholic beverages, seasoning sauces, **yeast** extract, and fruit products for the first time. Most food samples under study contained 3a/b and 4a/b in significant amounts. 5a/b was identified in soy sauce, worcestershire sauce, seasoning sauce, and **yeast** extract. Due to the excellent selectivity of tandem mass spectrometry coeluting tetrahydro-beta-carboline derivatives could be identified unequivocally by HPLC-ESI-MS/MS.

L12 ANSWER 18 OF 19 DISSABS COPYRIGHT (C) 2004 ProQuest Information and Learning Company; All Rights Reserved on STN
AN 2001:58769 DISSABS Order Number: AAIMQ57123
TI Characterization of protein glycoforms in cellobiohydrolases and endoglucanases from Trichoderma reesei RUT-C30 and mutant strains using capillary isoelectric focusing and mass spectrometry
AU Hui, Joseph P. M. [M.Sc.]; Roy, Rene [adviser]; Thibault, Pierre [adviser]
CS University of Ottawa (Canada) (0918)

SO Masters Abstracts International, (2000) Vol. 39, No. 4, p. 1162.
Order No.: AAIMQ57123. 142 pages.
ISBN: 0-612-57123-8.
DT Dissertation
FS MAI
LA English
AB <italic>Trichoderma reesei</italic> is a filamentous **fungus** heavily used in the biotechnology industry due to its efficient secretion of cellulases. The enzymatic system of <italic>T. reesei</italic> consists primarily of four glycoproteins referred to as cellobiohydrolases (CBH I, CBH II) and endoglucanases (EG I, EG II). They exhibit microheterogeneity both in the N- and O-linked glycans. This thesis focuses on the method development to characterize the glycosylation **profile** and post-translational modifications present in these glycoproteins. Crude cellulase fermentation extracts RUT-C30 and its two mutant strains Iogen-M4, Iogen-B13 were initially analyzed by capillary isoelectric focusing (CIEF) to determine the cellulase composition in them. The major cellulase CBH I was purified from each strain and **electrospray mass spectrometry** (ESMS) was used to reveal the extent of overall glycosylation. To characterize the N-linked glycans and their attachment sites, CBH I from these strains were subjected to tryptic digest with and without PNGase F incubations followed by mass spectrometric detection. The O-linked glycans were released chemically by hydrazinolysis and were analyzed by high performance anion-exchange chromatography with pulsed amperometric detection (HPAEC-PAD). The majority of O-linked glycans was di- and tri-saccharides. Two unusual posttranslational modification from strain RUT-C30 were observed: (1) both high mannose (predominantly Man<sub> 8</sub>GlcNAc<sub>2</sub>) and single GlcNAc in putative N-linked sites and (2) mannosylphosphorylation in a O-linked di-saccharide. Heterogeneity in putative N-linked sites was found consistently in CBH II, EG I and EG II from RUT-C30, however, no mannosylphosphorylation was observed at least on the proteins in the purified fractions. These results have led to the proposal of endogenous endoglycosidase H as well as mannosylphosphorylation activities possibly induced during fermentation.

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TI Pharmacogenomic Strategies: Biotech's New David and Goliath Challenge
SO Bioventure-View (**1998**) No. 1304 p1
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